



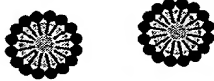


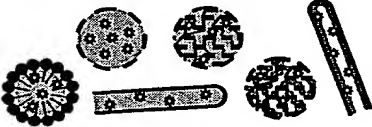
Functionalized Particulate Systems		Features
Soft Particles (microemulsions)		<ul style="list-style-type: none">• Nanoscale oil core• Fluid surface film
Soft/Hard Particles (Core-Shell/Porous/ Gels/Nanotubes)		<ul style="list-style-type: none">• Hydrophobic core• Porosity allows drug penetration
Templated Particles (Porous/Gels/Nanotubes)		<ul style="list-style-type: none">• Hard surfaces activated for specific adsorption of toxin
P450 Enhanced Nanoparticulates		<ul style="list-style-type: none">• Enzyme in oil core or bound to hard surfaces degrades toxin

FIGURE 1.

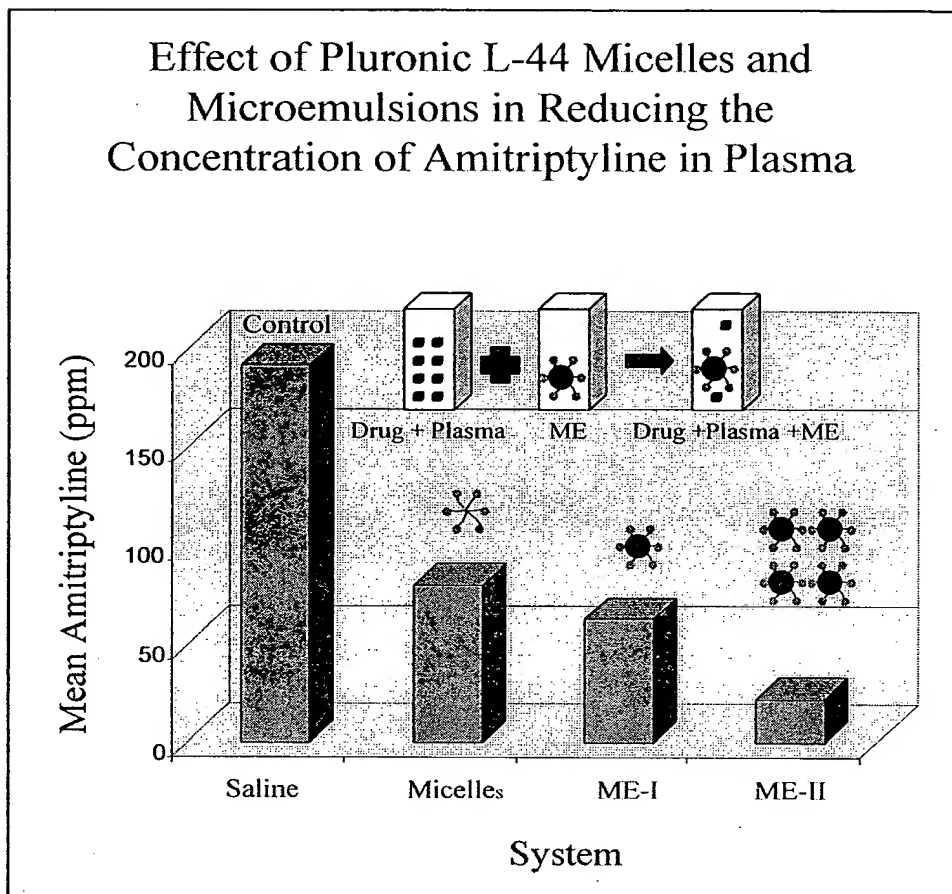


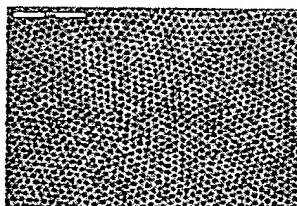
FIGURE 2.

Scanning Electron Micrographs of a Microporous Alumina Template Membrane Prepared in the Martin Lab

Surface Image

Cross- Section Image

3A.

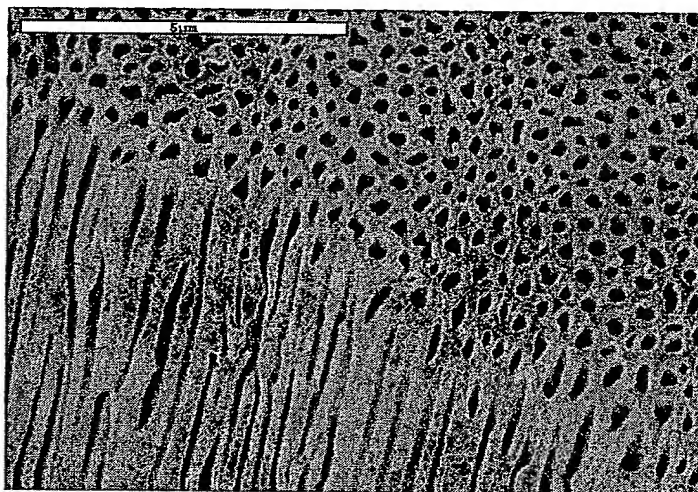


3B.



Very high density of monodisperse pores (dia. = 60nm).
Pore diameter can be controlled at will.

Scanning Electron Micrograph of the Surface of the Alumina Template Membrane Used



3C.

FIGURE 3.

Extraction of 7,8-Benzoquinoline (BQ) from Aqueous Solution the by Suspended Nanotubes

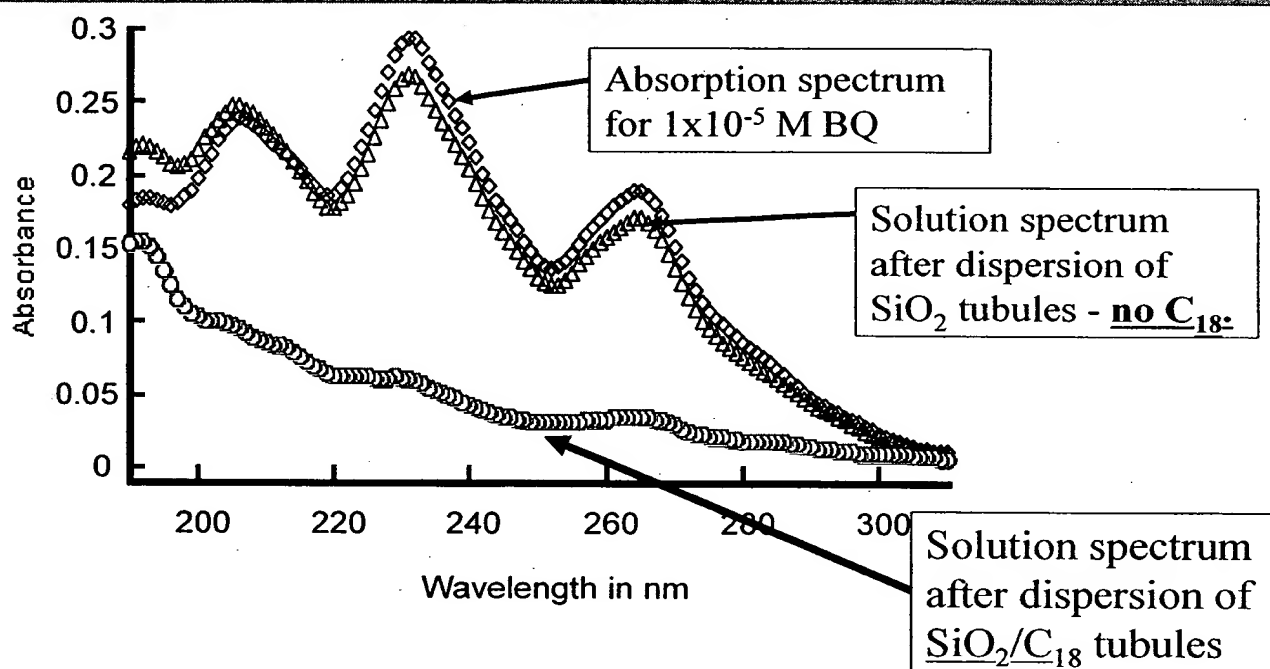


FIGURE 4.

Solution Absorption Spectra After Dispersion of First and Second Batch of SiO₂/C₁₈ Tubules

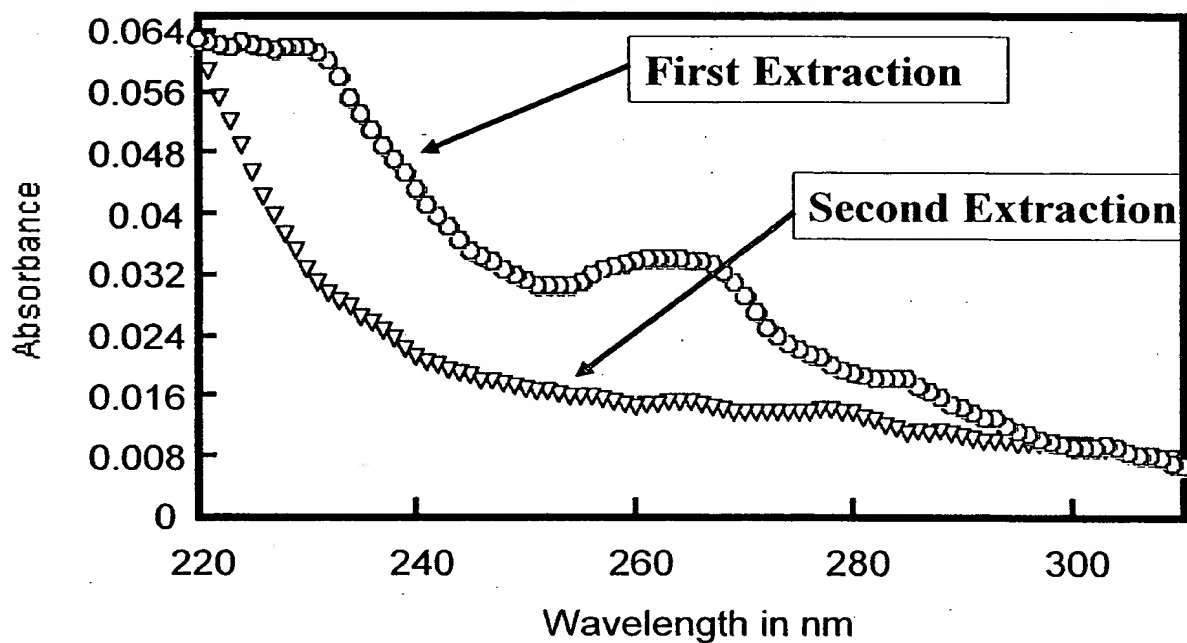


FIGURE 5.

Absorbance after Immersion and Removal of the $\text{Al}_2\text{O}_3/\text{SiO}_2/\text{GOD}$ Membrane

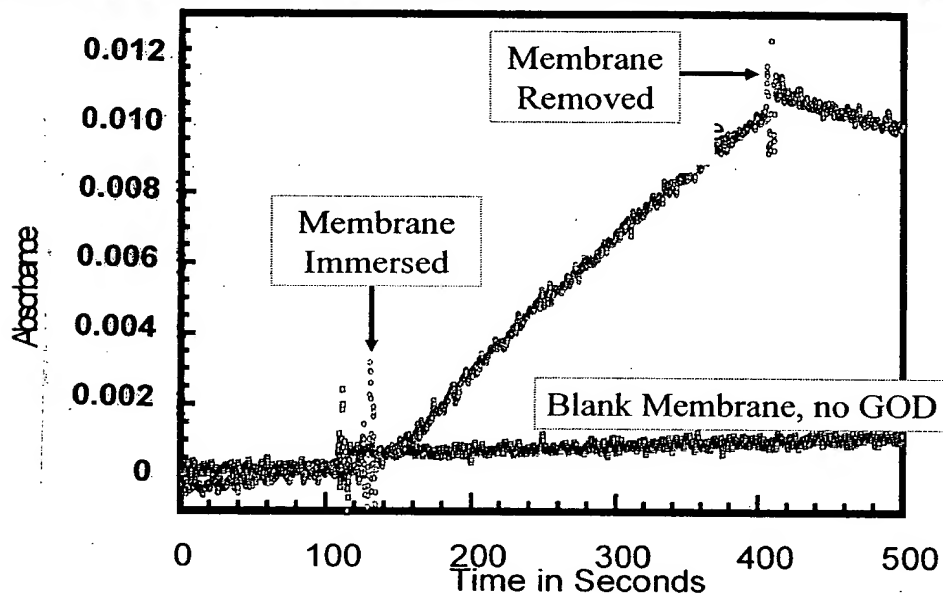


FIGURE 6.

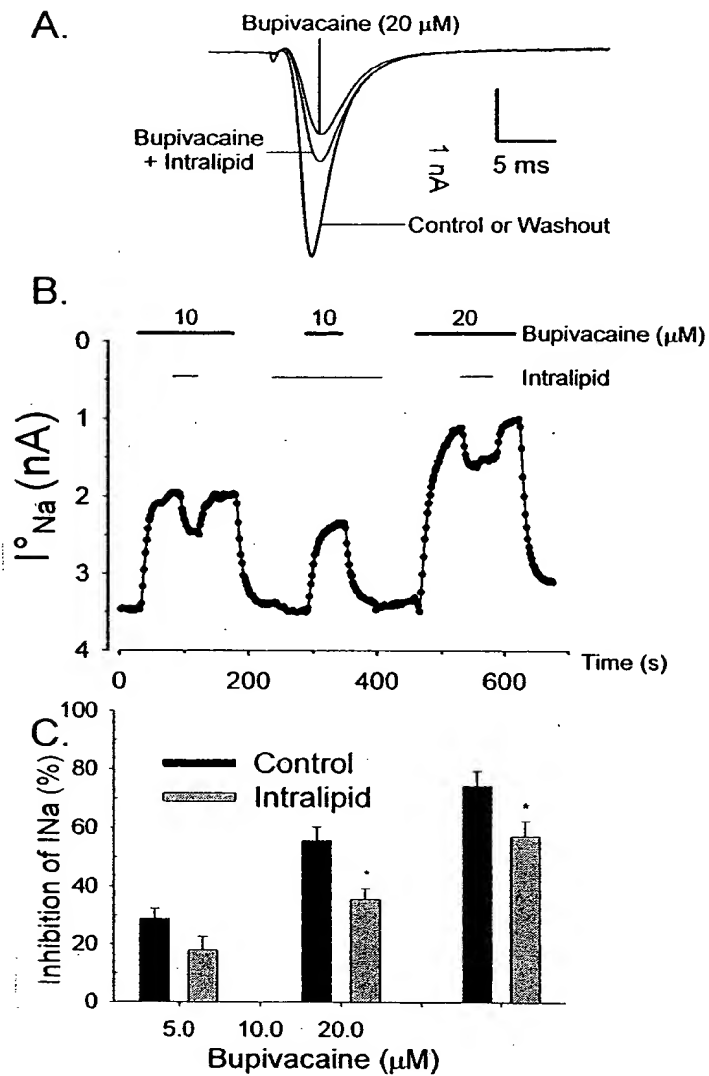


FIGURE 7.

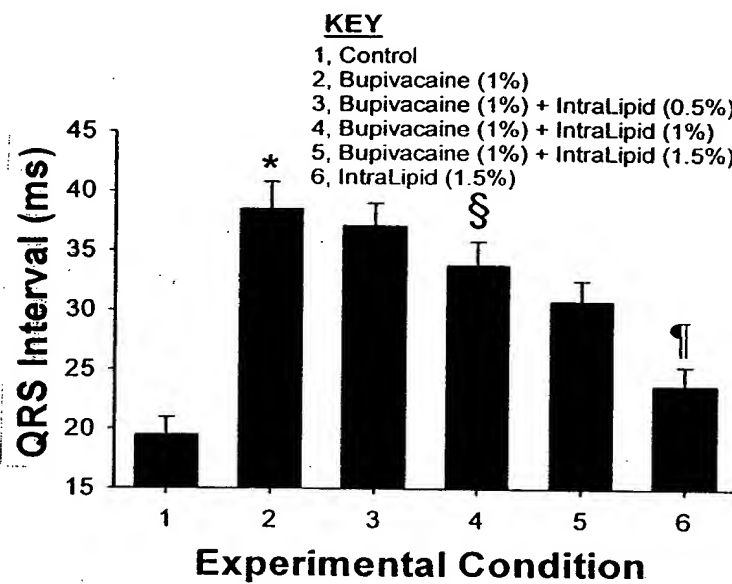


FIGURE 8.

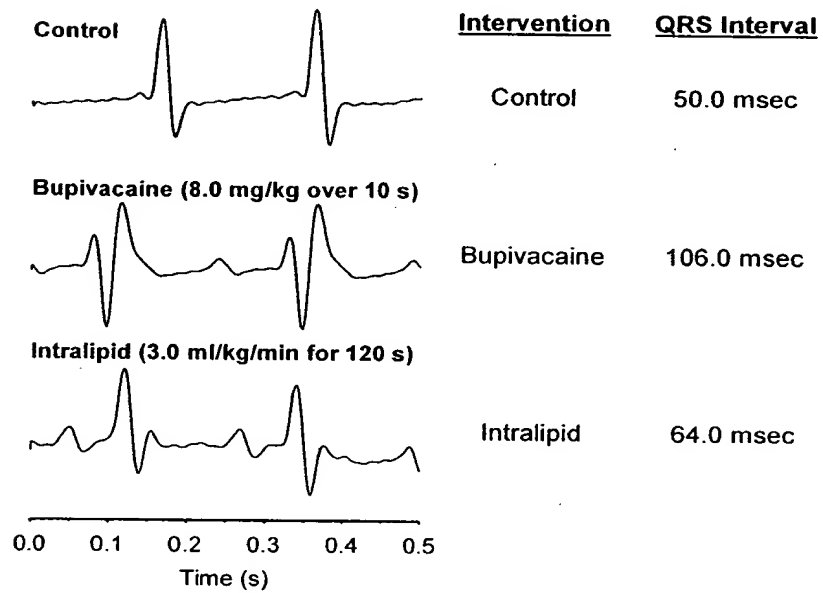


FIGURE 9.